

Appendix A
Sequence Listing

SEQ ID NO:01:

Inhibin beta A subunit (Activin A) Homo sapiens (PeproTech and GenBank X04447) macrophage cell line U937 (ATCC CRL 1539)) amino acid sequence:

GLECDGKVNICCKKQFFVSFKDIGWNDWIIAPSGYHANYCEGECPSHIAGTSGSSLS
FHSTVINHYMRGHSPFANLKSCCVPTKLRPMSMLYYDDGQNIKKDIQNMIVEECG
CS

SEQ ID NO:02:

Inhibin beta A chain (Activin beta-A chain) Homo sapiens .
(GenBank X04447) 3'-region macrophage cell line U937
(ATCC CRL 1539)nucleic acid sequence:

ggcttgagtgatggcaaggtcaacatctgctgtaagaaacagttctttgtcagt
ttcaaggacatcggctggaatgactggatcattgctccctctggctatcatgccaac
tactgcgaggggtgagtgcccgcagccatatagcaggcacgtccgggtcctcactgtcc
ttccactcaacagtcatcaaccactaccgcatgcggggccatagcccctttgccaac
ctcaaatcgtgctgtgtgcccaccaagctgagacctatgtccatgttggtactatgat
gatggtcaaaacatcatcaaaaaggacattcagaacatgatcgtggaggagtggtggg
tgctcatag

SEQ ID NO:03:

Inhibin beta A chain (Activin beta-A chain) Homo sapiens
(Swiss-Prot P08476) (GenBank M13436) (Erythroid
differentiation protein) (EDF) ovarian amino acid
sequence:

MPLLWLRGFL LASCWII VRSSPTPGSEGHSAAPDCPSCALAALPKDVPNSQPEMVEA
VKKHILNMLHLKKRPDVTQVPK AALLNAIRKLHVGVGENGYVEIEDDIGRRAEMN
ELMEQTSEIITFAESGTARKTLHFEISKEGSDLSVVERAEVWLFLKVPKANRTRTKV
TIRLFQQQKHPQGSLDTGEEAEVGLKGERSELLLSEKVVDARKSTWHVFPVSSSIQ
RLLDQGKSSLDVRIACEQCQESGASLVLLGKKKKKEEGEGKKKGGGEGGAGADEEK
EQSHRPFLMLQARQSEDHPHRRRRRGLECDGKVNICCKKQFFVSFKDIGWNDWIIAP
SGYHANYCEGECPSHIAGTSGSSLSFHSTVINHYMRGHSPFANLKSCCVPTKLRPM
SMLYYDDGQNIKKDIQNMIVEECGCS

SEQ ID NO:04: Inhibin B subunit - RECOMBINANT INHIBIN

Patent: WO 8606076-A 14 23-OCT-1986 (GeneBank A14422)
amino acid sequence:

ARQSEDHPHRRRRRGLECDGKVNICCKKQFFVSFKDIGWNDWIIAPSGYHANYCEGE
CPSHIAGTSGSSLSFHSTVINHYMRGHSPFANLKSCCVPTKLRPMSMLYYDDGQNI
IKKDIQNMIVEECGCS

SEQ ID NO:05: Inhibin B subunit in testis Homo sapiens
(GeneBank X72498) amino acid sequence:

GLECDGKVNICCKKQFFVSFKDIGWNDWIIAPSGYHANYCEGECPSHIAGTSGSSLS
FHSTVINHYACGHSPFANLKSCCVPTKLRPMSMLYYDDGQNIKKKDIQNMIVEECGCS

SEQ ID NO:06: Inhibin B subunit erythroid
differentiation protein mRNA (EDF), acute monocytic
leukemia cell line THP-1, Homo sapiens (GeneBank J03634)
amino acid sequence:

MPLLWLRGFLASCWIIVRSSPTPGSEGHSAAPDCPSCALAALPKDVPNSQPEMVEA
VKKHILNMLHLKKRPDVTQVPKAALLNAIRKLHVGVGKVGNGYVEIEDDIGRRAEMN
ELMEQTSEIITFAESGTARKTLHFEISKEGSDLSVVERAEVWLFLKVPKANRTRTKV
TIRLFQQQKHPQGSLDTGEEAEVGLKGERSELLLSEKVVDARKSTWHVFPVSSSIQ
RLLDQKGSSLDVRIACEQCQESGASLVLLGKKKKKEEGEGKKKGEGGAGADEEK
EQSHRPFLMLQARQSEDHPHRRRRRGLECDGKVNICCKKQFFVSFKDIGWNDWIIAP
SGYHANYCEGECPSHIAGTSGSSLSFHSTVINHYMRGHSPFANLKSCCVPTKLRPM
SMLYYDDGQNIKKKDIQNMIVEECGCS

SEQ ID NO:07:
Inhibin beta A chain (Activin beta-A chain) (Swiss-Prot
Swiss-Prot Q04998) (GenBank X69619; BC053527) - Mus
musculus (Mouse) amino acid sequence:

MPLLWLRGFLASCWIIVRSSPTPGSEGHGSAPDCPSCALATLP
KDGPN SQPEMVEAVKKHILNMLHLKKRPDVTQVPKAALLNAIRKLHVGVGKVGNGYV
E
IEDDIGRRAEMNELMEQTSEIITFAESGTARKTLHFEISKEGSDLSVVERAEVWLFL
K
VPKANRTRTKVTIRLFQQQKHPQGSLDTGDEAEEMGLKGERSELLLSEKVVDARKST
W
HIFPVSSSIQRLLDQKGSSLDVRIACEQCQESGASLVLLGKKKKKEVDGDGKKKDGS
D
GGLEEEKEQSHRPFLMLQARQSEDHPHRRRRRGLECDGKVNICCKKQFFVSFKDIGW
N

DWIIAPSGYHANYCEGECPSHIAGTSGSSLSFHSTVINHYRMRGHSPFANLKSCCVP
T
KLRPMSMLYYDDGQNIKKDIQNMIVEECGCS

SEQ ID NO:08:

Inhibin beta A chain (Activin beta-A chain) (Swiss-Prot
P18331) (GenBank M37482) - Rattus norvegicus (Rat) amino
acid sequence:

MPLLWLRGFLLLASCWIIIVRSSPTPGSEGHGAAPDCPSCALATLP
KDGPN SQPEMVEAVKKHILNMLHLKKRPDVTQVPK AALLNAIRKLHVGKVGGENGYV
E
IEDDIGRRAEMNELMEQTSEIITFAESGTARKTLHFEISKEGSDLSVERAEVWLFL
K
VPKANRTRTKVTIRLFQQQKHPQGS LDMGDEAEEMGLKGERSELLLSEKVVDARKST
W
HIFPVSSSIQRLLDQ GKSSLDVRIACEQCQESGASLVLLGKKKKKEVDGDGKKKDGS
D
GGLEEEKEQSHRPFLMLQARQSEDHPHRRRRRGLECDGKVNICCKKQFFVSFKDIGW
N
DWIIAPSGYHANYCEGECPSHIAGTSGSSLSFHSTVINHYRMRGHSPFANLKSCCVP
T
KLRPMSMLYYDDGQNIKKDIQNMIVEECGCS

SEQ ID NO:09:

Inhibin beta A chain (Activin beta-A chain) (Swiss-Prot
P27092) (GenBank U26946; U42377; M61167; M57407 - Gallus
gallus (Chicken) amino acid sequence:

MPLLWKRGFLLVICWIIIVRSSPTPGSEGHSSVADCPSCALTTL SKDVPSSQPEMVEA
VKKHILNMLHLRDRPNITQVPK AALLNATKKLHVGKVGDDGYVEIEDDVGRRAEMN
EVVEQTSEIITFAESGTPKKT LHF EISKEGSELSVVEHA EVWLFLK VSKANRSRTKV
TIRLFQQQRQPKGNSEAAEDMEDMGLKGERSETLISEKA VDARKSTWHIFPISSSVQ
RLLDQ GQSSLDVRIACDLCQETGASLVLLGKKKKKEDDGEGKEKDGGELTGEEKEQ
SHRPFLMMLARHSEDRQHRRRRRGLECDGKVNICCKKQFFVSFKDIGWSDWIIAPTG
YHANYCEECP SHIAGTSGSSLSFHSTVINHYRMRGHSPFANLKSCCVP TKLRPMSM
LYYDDGQNIKKDIQNMIVEECGCS

SEQ ID NO:10:

Inhibin beta A chain (Activin beta-A chain) (Swiss-Prot
P07995) (GenBank U16239; U16238 JOINED; M13274) - Bos
taurus (Bovine) amino acid sequence:

MPLLWLRGFLLLASCWIIIVRSSPTPGSEGHSAAPDCPSCALATLPKDVPNSQPEMVEA
VKKHILNMLHLKKRPDVTQVPK AALLNAIRKLHVGKVGGENGYVEIEDDIGRRAEMN

ELMEQTSEIITFAESGTARKTLHFEISKEGSDLSVVERAEIWLFLKVPKANRTRSKV
TIRLFQQQKHLQGSLDAGEEAEVGLKGEKSEMLISEKVVDARKSTWHIFPVSSCIQ
RLLDQGKSSLDIRIACEQCQETGASLVLLGKKKKKEEEGEGKKRDGEGGAGGDEEKE
QSHRPFLMLQARQSEDHPHRRRRRGLECDGKVNICKKQFFVSFKDIGWNDWIIAPS
GYHANYCEGECPSHIAGTSGSSLSFHSTVINHYRMRGHSPPFANLKSCCVPTKLRPMS
MLYYDDGQNIKKDIQNMIVEECGCS

SEQ ID NO:11:

Inhibin beta A chain (Activin beta-A chain) (Swiss-Prot
P55102) (GenBank D50326) - Equus caballus (Horse) amino
acid sequence:

MPLLWLRGFLLASCWIIIVKSSPTPGSEGHSAAAPNCPSCALATLPKDVPNAQPPEMVEA
VKKHILNMLHLKKRPDVTQVPVKAALLNAIRKLHVGVGKVGNGYVEIEDDIGRRAEMN
ELMEQTSEIITFAESGTARKTLHFEISKEGSDLSVVERAEVWLFLKVPKANRTRSKV
TIRLLQQQKHPQGSSDTREEAEADLMEERSEQLISEKVVDARKSTWHIFPVSSSIQ
RLLDQGKSSLDIRIACDQCHETGASLVLLGKKKKKEEEGEGKKKDGGEAGAGVDEEK
EQSHRPFLMLQARQSEDHPHRRRRRGLECDGKVNICKKQFFVSFKDIGWNDWIIAP
SGYHANYCEGECPSHIAGTSGSSLSFHSTVINQYRLRGHNPFANLKSCCVPTKLRPM
SMLYYDDGQNIKKDIQNMIVEECGCS

SEQ ID NO:12:

Inhibin beta A chain (Activin beta-A chain) (Swiss-Prot
P03970) (GenBank X03266) - Sus scrofa (Pig) amino acid
sequence:

MPLLWLRGFLLASCWIIIVRSSPTPGSGGHSAAAPDCPSCALATLPKDVPNSQPEMVEA
VKKHILNMLHLKKRPDVTQVPVKAALLNAIRKLHVGVGKVGNGYVEIEDDIGRRAEMN
ELMEQTSEIITFAEAGTARKTLRFEISKEGSDLSVVERAEIWLFLKVPKANRTRTKV
SIRLFQQQRRPQGSADAGEEAEDVGFPPEEKSEVLISEKVVDARKSTWHIFPVSSSIQ
RLLDQGKSALDIRTACEQCCHETGASLVLLGKKKKKEEEAEGRKRDGEGAGVDEEKEQ
SHRPFLMLQARQSEEHPHRRRRRGLECDGKVNICKKQFFVSFKDIGWNDWIIAPSG
YHANYCEGECPSHIAGTSGSSLSFHSTVINHYRMRGHSPPFANLKSCCVPTKLRPMSM
LYYDDGQNIKKDIQNMIVEECGCS

SEQ ID NO:13:

Inhibin beta A chain (Activin beta-A chain) (Swiss-Prot
P43032) (GenBank L19218) - Ovis aries (Sheep) amino acid
sequence:

MPLLWLRGFLLASCWIIIVRSSPTPGSEGHSAAAPDCPSCALATLPKDVPNSQPEMVEA
VKKHILNMLHLKKRPDVTQVPVKAALLNAIRKLHVGVGKVGNGYVEIEDDIGRRAEMN
ELMEQTSEIITFAESGTARKTLHFEISQEGSDLSVVERAEIWLFLKVPKANRTRSKV
TIRLFQQQKHLQGSLDAGEEAEVGLKGEKSEMLISEKVVDARKSTWHIFPVSSCIQ
RLLDQGKSSLDIRIACEQCQETGASLVLLGKKKRKEEEGEGKKRDGEGGAGGDEEKE

QSHRPFLMLQARQSEDHPHRRRRRGLECDGKVNICCKKQFYVSFKDIGWNDWIIAPS
GYHANYCEGECPSHIAGTSGSSLSFHSTVINHYMRGHSPFANLKSCCVPTKLRPMS
MLYYDDGQNIKKDQNMIVEECGCS

SEQ ID NO:14:

Inhibin beta A chain (Activin beta-A chain (GenBank
BC056742) - Felis catus (cat) amino acid sequence:
MPLLWLRGFLASCWIIIVRSSPTPGSEGPGAAPDCPSCALATLPKDVPNSQPEMVEA
VKKHILNMLHLKKRPEVTQVPKAAALLNAIRKLHVGVGKVGNGYVEIEDDIGRRAEMN
ELMEQTSEIITFAESGTARKTLHFEISKEGSDLSVERAEVWLFLKVPKANRTRTKV
TIQLLQKQPQGGVDAGEEAEEMGLMEERNEVLISEKVVDARKSTWHIFPVSSSIQRL
LDQGKSSLDVRIACEQCHETGASLVLLGKKKKKEEGEGKKKDGDDGAGADEDKEQ
SHRPFLMLQARQSEDHPHRRRRRGLECDGKVNICCKKQFFVSFKDIGWNDWIIAPSG
YHANYCEGECPSHIAGTSGSSLSFHSTVINHYMRGHSPFANLKSCCVPTKLRPMSM
LYYDDGQNIKKDQNMIVEECGCS

SEQ ID NO:15:

Inhibin beta A chain (Activin beta-A chain (GenBank
BC056742) - Danio rerio (zebrafish) amino acid sequence:

MSPLPLLSGILLLLIRSCSLSAMVTKGSLPMSEQQAGATVCPSCALARFRKGVSESE
DEGAQQDVVEAVKRRHILNMLHLQERPNIHPVPRAALLNAIRKVHVGRVAKDGSVLI
EDEASNRAETEQAQTEIITFAETGEAPGIVNFLISKEGGEMSVVDQANVWIFLRLP
KGNRTRANVNIRLLQLQGAGEKILAEKSVDTRRSWHTFPASESVQSLQGGSTLS
LRVSCPLCADARATPVLVSPGGSEREQSHRPFLMAVVRQMDLSLRRRRKRGLCDG
KARVCCRQFYVNFKDIGNWIIAPSGYHANYCEGDCASNVAITGNSLSFHSTVI
SHYRIRGYSPFTNIKSCCVPTRLRAMSMLYNEEQKIVKKDQNMIVEECGCS

SEQ ID NO:16:

Inhibin beta A chain (Activin beta-A chain (GenBank
BC056742) - Carassius auratus (goldfish) amino acid
sequence:

MSSLTLVNRGTAALRLFVRGLLTHSSREWLSGDGEPDDPVTPCP

SCALAQRQKDSEEQTDMVEAVKRRHILNMLHLNTRPNVTHPVPRAALLNAIRRLHVGR
V
GEDGTVEMEEDGGGLGEHREQSEEQPFETITFAEPGDAPDIMKFDISMEGNTLSVVE
Q
ANVWLLLKVAKGSRGKGKVSQQLLQHGKADPGSADGPQEAVVSEKTVDTRRSGWHTL
P
VSRTVQTLTDGDSSMLSLRVSCPMCAEAGAVPILVPTESNKGKEREQSHRPFLMVVL
K
PAEEHPHRRSKRGLCDGKIRVCCRQFYVNFKDIGNWIIAPSGYHANYCEGDCP
S

HVASITGSALSFHSTVINHYRMRGYSPFNNIKSCCVPTRLRAMSMLYYNEEQKIIKK
D IQNMIVEECGCS

SEQ ID NO:17:

Keratinocyte growth factor (PeproTech) - Homo sapiens
(Human) amino acid sequence amino acid sequence:

MCNDMTPEQMATNVNCSSPERHTRSVDYMEGGDIRVRRLFCRTQWYLRLDKRGKVKGTQEMKNNYNIMEIIRTVAVGIVAIGVESEFYLAMNKEGKLYAKKECNEDCNFKELILENHYNITYASAKWTHNGGEMFVALNQKGIPVRGKKTKEQKTAHFLPMAIT

SEQ ID NO:18:

Keratinocyte growth factor (Swiss-Prot P21781) (GenBank
M60828; S81661) - Homo sapiens (Human) amino acid
sequence:

MHKWILTWILPTLLYRSCFHIICLVGTISLACNDMTPEQMATNVNCSSPERHTRSVDYMEGGDIRVRRLFCRTQWYLRLDKRGKVKGTQEMKNNYNIMEIIRTVAVGIVAIGVESEFYLAMNKEGKLYAKKECNEDCNFKELILENHYNITYASAKWTHNGGEMFVALNQKGIPVRGKKTKEQKTAHFLPMAIT

SEQ ID NO:19:

Keratinocyte growth factor (Swiss-Prot P36363) (GenBank
Z22703; U58503; BC052847) - Mus musculus (Mouse) amino
acid sequence:

MRKWILTRILPTLLYRSCFHLVCLVGTISLACNDMSPEQTATSVNCSSPERHTRSVDYMEGGDIRVRRLFCRTQWYLRLDKRGKVKGTQEMKNSYNIMEIIRTVAVGIVAIGVESEYLLAMNKEGKLYAKKECNEDCNFKELILENHYNITYASAKWTHSGGEMFVALNQKGIPVKGKKTKEQKTAHFLPMAIT

SEQ ID NO:20:

Keratinocyte growth factor (Swiss-Prot P79150) (GenBank
U80800) - Canis familiaris (Dog) amino acid sequence:

MRKWILTWILPTLLYRSCFHIICLVGTISLACNDMTPEQMATNV
NCSSPERHTRSVDYMEGGDIRVRRLFCRTQWYLRLDKRGKVKGTQEMKNSYNIMEIR
T
VAVGIVAIGVESEYLLAMNKEGKLYAKKECNEDCNFKELILENHYNITYASAKWTHS
G
GEMFVALNQKGVPVRGKKTKEQKTAHFLPMAIT

SEQ ID NO:21:

Keratinocyte growth factor (Swiss-Prot Q9N198) (GenBank AF217463) - Sus scrofa (Pig) amino acid sequence:

MRKWILTWILPSLLHRSCFHIICLVGTLSLDCNDMTPEQMATNV
NCSSPERHTRSVDYMEGGDIRVRRLFCRTQWYPRIGKRGKVKGTTQEMKNNYNIMEIR
T
VAVGIVAIKGVVSEYYLAMNKEGKLYAKKEYNEDCNFKELILENHYNITYASAKWTHS
G
GEMFVALNQKGVPPVRGKKTKKEQKTAHFLPMAIT

SEQ ID NO:22:

Keratinocyte growth factor (HBGF-7) (Swiss-Prot Q02195) (GenBank X56551) - Rattus norvegicus (Rat) amino acid sequence:

MRKWILTRILPTPLYRPCFHLVCLVGTISLACNDMSPEQTATSV
NCSSPERHTRSVDYMEGGDIRVRRLFCRTQWYLRIDKRGKVKGTTQEMRNSYNIMEIM
T
VAVGIVAIKGVSEYYLAMNKQGELYAKKECNEDCNFKELILENHYNITSASAKWTHS
G
GEMFVALNQKGLPVKGKKTKKEQKTAHFLPMAIT

SEQ ID NO:23:

Keratinocyte growth factor (Swiss-Prot P48808) (GenBank Z46236) - Ovis aries (Sheep) amino acid sequence:

MRKWILTWILPTLLYRSCFHIICLVGTISLACNDMTPEQMATNV
NCSSPERHTRSVDYMEGGDIRVRRLFCRTQWYLRIDKRGKVKGTTQEMKNSYNIMEIR
T
VAVGIVAIKGVSEYYLAMNKEGKLYAKKECNEDCNFKELILENHYNITYASAKWTHS
G
GEMFVALNQKGVPPVRGKKTKKEQKTAHFLPMAIT

SEQ ID NO:24:

Keratinocyte growth factor (FGF-7) (GenBank AF420232) - Mustela vison (American mink) amino acid sequence

MRKWILTWILPTLLYRSCFHIICLVGTISLACNDMTPEQMATNV

NCSSPERHTRSVDYMEGGDIRVRRLFCRTQWYLRIDKRGKVKGTTQEMKNSYNIMEIR
T
VAVGIVAIKGVSEYYLAMNKEGKLYAKKECNEDCNFKELILENHYNITYASAKWTHS
G
GEMFVALNQKGVPPVRGKKTKKEQKQP

SEQ ID NO:25:

Keratinocyte growth factor (Swiss-Prot P21781) (GenBank S81661) - Homo sapiens (Human) nucleic acid sequence:

acgcgctcacacacagagagaaaaatccttctgcctggttgatttatggaaacaattat
ga
ttctgctgggagaacttttccagctgagaaatagtttgtagctacagtagaaaggctca
ag
ttgcaccaggcagacaacagacatggaattcttatatatccagctggttagcaacaaa
ac
aaaagtcaaataagcaaacagcgtcacagcaactgaacttactacgaactgtttttat
ga
ggatttatcaacagagttattttaaggaggaatcctgtgttggttatcaggaactaaaa
gg
ataaggctaacaatttggaagagcaagtactctttcttaaataaatctacaattca
ca
gataggaagaggtcaatgacctaggagtaacaatacaactcaagattcattttcatta
tg
ttattcatgaacacccggagcactacactataatgcacaaatggatactgacatgga
tc
ctgccaactttgctctacagatcatgctttcacattatctgtctagtgggtactata
tc
tttagcttgcaatgacatgactccagagcaaatggctacaaatgtgaactgttccag
cc
ctgagcgacacacaagaagttatgattacatggaaggaggggatataagagtgagaa
ga
ctcttctgtcgaacacagtggtacctgaggatcgataaaagaggcaaagtaaaaggg
ac
ccaagagatgaagaataattacaatatcatggaaatcaggacagtggcagttggaat
tg
tggcaatcaaaggggtggaaagtgaattctatcttgcaatgaacaaggaaggaaaac
tc
tatgcaaagaaagaatgcaatgaagattgtaacttcaaagaactaattctggaaaac
ca
ttacaacacatatgcatcagctaaatggacacacaacggaggggaaatgtttgttg
ct
taaatcaaaaggggattcctgtaagaggaaaaaaaacgaagaaagaacaaaaaacag
cc
cactttcttcttatggcaataacttaattgcatatggtatataaagaaccagttcc
ag
caggagagatttctttaagtggactgttttcttcttctcaaaattttcttctcttt
at
tttttagtaatacaagaaaggctggaaaaactactgaaaaactgatcaagctggactt
gt
gcatttatgtttgttttaag

SEQ ID NO:26:

Keratinocyte growth factor (Swiss-Prot P36363) (GenBank
Z22703) - Mus musculus (Mouse) nucleic

acid sequence:

atgcgcaaattggatactgacacggatcctgccaactctgctctacagatcatgcttc
ca
cctcgtctgtctagtgggcactatatctctagcttgcaatgacatgagtccggagca
aa
cggctacgagtgtgaactgttccagccccgagcgacacaccagaagttatgactaca
tg
gaaggaggggatataagggtgagaagactgttctgtcgcacccagtgggtacctgagg
at
tgacaaacgaggcaaagtgaaggggacccaggagatgaagaacagctacaacatcat
gg
aatcaggaccgtggcagttggaattgtggcaatcaaaggggtggaaagtgaatact
at
cttgccatgaacaaggaagggaactctatgcaaagaaagaatgcaatgaggattgc
aa
cttcaaagaactgattctggaaaaccattataacacctatgcatcagctaaatggac
ac
acagcggaggggaaatgttcgttgcccttaaatacaaaaggggattcctgtcaaaggga
ag
aaaacgaagaagaacaacaaaaacagccattttcttcctatggcaataacctaa

SEQ ID NO:27:

Keratinocyte growth factor (Swiss-Prot P79150) (GenBank
U80800) - *Canis familiaris* (Dog) nucleic acid sequence:

agaggtcaatgacccaggagcaacaatcaactcaagatttaattttcattatgttat
t
catgaacacccggagcactacactataatgcgcaaattggatactgacatggatcctg
c
caactttgctctacagatcatgctttcacattatctgtctagtgggcactatatctt
t
agcttgcaatgacatgactccagagcaaattggctacaaatgtgaactgttccagccc
t
gagcgacatacaagaagttatgattacatggaaggaggggatataagagtgagaaga
c
tcttctgtcgaacacagtgggtatctgaggattgataaacgaggcaaagtcaaaggga
c
ccaagagatgaagaacagttacaatatcatggaaatcaggacagtggcagttggaat
a
gtggcaatcaaaggggtggaaagtgaatattatcttgcaatgaataaggaaggaaag
c
tctatgcaaagaaagaatgcaatgaagattgcaacttcaaagaattaattctggaaa
a
ccattacaacacatatgcatcagctaaatggacacacagcggaggagaaatgtttgt
t
gctttaaatcaaaaggggggttcctgtgaagggggaaaaaaacgaagaagaacaaaaa
a
cagcccactttcttcctatggcaataacataatcatatatgggtatata

SEQ ID NO:28:

Keratinocyte growth factor (Swiss-Prot Q9N198) (GenBank AF217463) - Sus scrofa (Pig) nucleic acid sequence:

aatctacaattcacagataggaagagggtcagtgacctaggagcaacgatcaactcaa
g
atattattttcattatggtatttcatgaacacccggagcactataactataatgcgcaaa
t
ggatactgacatggatcctgccaaagtttgctccacagatcatgcttccacattatct
g
tctggtgggcactttatctttggattgcaatgacatgactccagagcaaattggctac
a
aatgtgaactgttccagccctgagcgacatacaagaagttatgattacatggaagga
g
gggatataagagtgagaagactcttctgtcgaacacagtggtatccgaggattggca
a
acgaggcaaagtcaaagggactcaagagatgaagaacaattacaacatcatggaaat
c
aggacagtggctgttgggaattgtagcaatcaaaggagtggttaagtgaatattatctt
g
caatgaacaaggaaggaaaactctatgcaaagaaagaatacaatgaagattgtaact
t
caaagaattaattctggaaaaccattacaacacgtatgcatcagctaaatggacaca
c
agtggaggagaaatgtttgttgcttaaatcaaaggggggttcctgtaagagggaaa
a
aaaccaagaaagaacaaaaaacagcccacttttcttcctatggcaataactaa

SEQ ID NO:29:

Keratinocyte growth factor (Swiss-Prot Q02195) (GenBank X56551) - Rattus norvegicus (Rat) nucleic acid sequence:

caatctacaattcacagataggaggaggcccatgacctaggagtagcgatcaactcaa
a
ggtccagttctcattatggtatttcatggacacccggggcactgctctataatgcgca
aatggatactgacacggatcctgccgactccgctctacagaccgtgcttccacctcg
tctgtcttgtgggcaccatatcttttagcttgcaatgacatgagtcagagcagacgg
c
cacgagcgtgaactgttctagccccgagcgacacacgagaagttatgactacatgga
a
ggaggggatataaggggtgaggagactgttctgtcgcacccagtgggtacctgaggatt
g
acaaacgaggcaaagtgaaggggacccaggagatgaggaacagctacaacatcatgg
a

aatcatgactgtggcagttggaattgtggcaatcaaaggggtggaaagtgaatacta
t
cttgccatgaacaaacaaggggaactctatgcaaagaaagaatgcaatgaggattgc
a
acttcaaagaactgattctggaaaaccattacaacacctctgcatcagctaaatgga
c
acacagcggaggggaaatgttcgtggccttaaatacaaaggggcttcctgtcaaagg
g
aagaaaacgaagaaagaacaaaaaacggcccacttttcttcctatggcaataacttaa

SEQ ID NO:30:

Keratinocyte growth factor (Swiss-Prot P48808) (GenBank Z46236) - Ovis aries (Sheep) nucleic acid sequence:

ttatgttattcatgaacacccggagcactataactataatgcgcaaattggatactgac
a
tggatcctgccaagtttgctctacagatcatgcttccacattatctgtctagtgggc
a
ctatatcttttagcttgcaatgacatgactccagagcaaattggctacaaatgtgaact
g
ttccagccccgagcgacatacaagaagttatgattacatggaaggaggagatataag
a
gtgagaagactcttctgtcgaacacagtgggtatctgaggattgataaacgaggcaaa
g
tcaaagggactcaagagatgaagaataattacaacatcatggaaatcaggacagtgg
c
tggttgaattgtagcaatcaaaggagtggaaagtgaatattaccttgcaatgaacaa
g
gaaggaaaactctatgcaaagaaagaatgtaacgaagactgcaacttcaaagaatta
a
ttctggaaaatcattacaacacatatgcatcagctaaatggacacacagtggaggag
a
aatgtttgttgcccttaaattcaaaaggggttccagtaagaggggaagaaaacgaagaa
a
gaacaaaaaacagcccacttttcttcctatggcaataacttaa

SEQ ID NO:31:

Keratinocyte growth factor (FGF-7) (GenBank AF420232) - Mustela vison (American mink) nucleic acid sequence

atgcgcaaattggatactgacatggatcctgccaacttttgctctacagatcatgctt
tcacattatctgtctagtgggcactatatcttttagcttgcaatgacatgactccaga
g
caaattggctacaaatgtgaactgttccagccctgagcgacatacaagaagttatgat
t

acatggaaggaggggatataagagtgagaagactcttctgtcgaacacagtgggtatc
t
gaggattgataaacgagggaaggtcaaaggaacccaagagatgaagaacagttacaa
t
atcatggaaatcaggacagtggcagttggaattgtggcaatcaaaggggtggaaagt
g
aatattatcttgcaatgaataaggaaggaaaactctatgcaaagaaagaatgcaatg
a
agattgcaacttcaaagaattaattctggaaaaccattacaacacatatgcatcagc
t
aatggacacacagcggaggagaaatgtttgttgctttaaatcaaaaggggggttcct
g
taaggggggaaaaaacgaagaagaacaaaaacagccc

SEQ ID NO:32:

Inhibin beta A chain (Activin beta-A chain) Homo sapiens
(GenBank M13436) (Erythroid differentiation protein)
(EDF) ovarian amino acid sequence:

tgctccctgacagccacaaacctacagcactgactgcattcagagaggaacctgcaa
acaaaactttcacagaaaactttttgttcttgttccagagaatttgctgaagaggaga
aggaaaaaaaaaacacacaaaaaaaaataaaaaaatccacacacacaaaaaacctg
cgctgaggggggaggaaaagcagggccttttaaaaaggcaatcacacaacttttg
ctgccaggatgcccttgctttggctgagaggatttctgttggcaagttgctggatta
tagtgaggagttccccccacccaggatccgaggggcacagcgcggcccccgactgtc
c
gtcctgtgctgctggccgccctcccaaaggatgtacccaactctcagccagagatggg
g
gaggccgtcaagaagcacattttaaacatgctgcacttgaagaagagacccgatgtc
a
cccagccggtacccaaggcggcgcttctgaacgcgatcagaaagcttcatgtgggca
a
agtcgggggagaacgggtatgtggagatagaggatgacattggaaggagggcagaaat
gaatgaacttatggagcagacctcggagatcatcacgtttgccgagtcaggaacagc
caggaagacgctgcacttcgagatttccaaggaaggcagtgacctgtcagtggtgga
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agtcaccatccgcctcttccagcagcagaagcaccgcagggcagcttggacacagg
ggaagaggccgaggaagtgggcttaagggggagaggagtgaactgttgctctctga
a
aaagtagtagacgctcgggaagagcacctggcatgtcttccctgtctccagcagcatc
cagcgggttgctggaccagggcaagagctccctggacgttcggattgcctgtgagcag
tgccaggagagtgggcgccagcttgggtctcctgggcaagaagaagaagaagaagag
gagggggaagggaaaaaagaaggcgagggtgaaggtggggcaggagcagatgaggaa
aaggagcagtcgcacagacctttcctcatgctgcaggcccggcagctctgaagaccac
cctcatcgccggcgctcggcgggggcttggagtgtgatggcaaggtcaacatctgctgt
aagaaacagttctttgtcagtttcaaggacatcggctggaatgactggatcattgct
ccctctggctatcatgccaaactactgcgaggggtgagtgcccgagccatatagcaggc

acgtccgggtcctcactgtccctccactcaacagtcattcaaccactaccgcattgcgg
ggccatagccccctttgccaaacctcaaattcgtgctgtgtgcccaccaagctgagaccc
atgtccattgttgactatgatgatgggtcaaaacatcatcaaaaaggacattcagaac
atgatcgtggaggagtgtgggtgctcatagagttgccagcccagggggaaagggag
caagagttgtccagagaagacagtggtgcaaaatgaagaaatttttaagggtttctgagt
taaccagaaaaatagaaattaaaaacaaaaca

SEQ ID NO:33:

Inhibin B subunit - RECOMBINANT INHIBIN

Patent: WO 8606076-A 14 23-OCT-1986 (GenBank A14422):

gcccggcagtcctgaagaccaccctcatcgccggcgctcggcggggccttgagtgat
ggcaagggtcaacatctgctgtaagaaacagttctttgtcagtttcaaggacatcggc
tggaatgactggatcattgctccctctggctatcatgccaaactactgcgaggggtgag
tgcccgagccatatagcaggcacgtccgggtcctcactgtccttccactcaacagtc
atcaaccactaccgcacatgcggggccatagccccctttgccaaacctcaaatcgtgctgt
gtgcccaccaagctgagacccatgtccatgttgactatgatgatgggtcaaaacat
catcaaaaaggacattcagaacatgatcgtggaggagtggtgggtgctcatagagtt
gccagcccagggggaaaggagcaaga

SEQ ID NO:34:

Nucleotide sequence coding for the mature subunit beta(A) inhibin in testis Homo sapiens (GenBank X72498):

ggcctggagtgcgacggcaagggtcaacatctgctgtaagaaacagttctttgtcag
tttcaaggacatcggctggaatgactggatcattgctccctctggctatcatgcc
actactgcgaggggtgagtgcccagccatatagcaggcacgtccgggtcctcactg
tccttcactcaacagtcacaaaccactacgcgatcgggccatagcccctttgcaa
cctcaaatcgtgctgtgtgcccaccaagctgagacccatgtccatgtttgtactatg
atgatgggtcaaaacatcatcaaaaaggacattcagaacatgatcgaggaggagtgc
gggtgctcctaa

SEQ ID NO:35:

Human erythroid differentiation protein mRNA (EDF),

Original source text: acute monocytic leukemia cell line THP-1, Homo sapiens (GenBank J03634):

tccacacacacacaaaaaacctgcgcggtgaggggggaggaaaagcagggccttttaaaa
aggcaatcacacaacttttggctgcccaggatgcccttgctttggctgagaggattt
ctgttggcaagttgctggattatagtgaggagttccccaccccaggatccgaggg
gcacagcgcgggcccccgactgtccgtcctgtgcgctggccgcctcccaaaggatg
tacccaactctcagccagagatggtggaggccgtcaagaagcacatttttaaacatg
ctgcacttgaagaagagacccgatgtcacccagccggtacccaaggcggcgcttct
gaacgcgatcagaaaagcttcatgtggggcaaagtcgggggagaacgggtatgtggaga
tagaggatgacattggaaggagggcagaaatgaatgaacttatggagcagacctcg
gagatcatcacgtttgccgagtcaggaacagccaggaagacgctgcacttcgagat
ttccaaggaaggcagtgacctgtcagtggtggagcgtgcagaagtctggctcttcc
taaaagtcccccaaggccaacaggaccaggaccaaagtcaccatccgcctcttccag
cagcagaagcaccgcaggggcagcttggacacagggggaagaggccgaggaagtggg
cttaaagggggagaggagtgaaactgttgctctctgaaaaagtagtagacgctcga

agagcacctggcatgtcttccctgtctccagcagcatccagcggttgctggaccag
 ggcaagagctccctggacgttcggattgctgtgagcagtgccaggagagtggtgcg
 cagcttgggttctcctgggcaagaagaagaagaagaagaggaggggggaagggaaaa
 agaagggcgagggtgaaggtggggcaggagcagatgaggaaaaggagcagtcgcac
 agaccttctcctcatgctgcaggcccggcagtcctgaagaccaccctcatcgccggcg
 tcggcgggggcttggagtgatggcaaggtcaacatctgctgtaagaaacagttct
 ttgtcagtttcaaggacatcggctggaatgactggatcattgctccctctggctat
 catgccaactactgcgagggtgagtgcccgagccatatagcaggcagtcggggtc
 ctactgtccttccactcaacagtcataccactaccgcatgcgggggccatagcc
 cctttgccaacctcaaatcgtgctgtgtgccaccaagctgagacctatgtccatg
 ttgtactatgatgatgggtcaaaacatcatcaaaaaggacattcagaacatgatcgt
 ggaggagtgtgggtgctcatagagttgcccagcccagggggaaaggagcaagagt
 tgtccagagaagacagtggtgcaaaatgaagaaatttttaaggtttctgagttaacca
 gaaaaatagaaattaaaaacaaaacaaaacaaaaaaacaaaaaaacaaaa
 gtaaattaaaaacaaacctgatgaaacagatgaaacagatgaaggaagatgtggaa
 atcttagcctgccttagccagggtcagagatgaagcagtgagagacagattggg
 agggaaaggagaaatgggtgtaccctttatcttctgaaatcacactgatgacatc
 agttgtttaaacggggtattgtcctttcccccttgagggttcccttgtagcttga
 atcaaccaatctgatctgcagtagtggtgactagaacaacccaaatagcatctaga
 aagccatgagtttgaaaggggcccatcacaggcactttcctagcctaatt

β -actin	forward:	cgcaccactggcattgtcat
	reverse:	ttctccttgatgtcacgcac
oct-4	forward:	gagcaaaacccggaggagt
	reverse:	ttctctttcgggctgcac
nanog	forward:	gcttgccttgcttgaagca
	reverse:	ttcttgactgggaccttgtc
Activin A	forward:	cttgaagaagagaccgat
	reverse:	cttctgcacgtccactac
Neuro-D:	forward:	gagactatcactgctcagga
	reverse:	gataagcccttgcaaagcgt
Brachyury T gene:	forward:	caaccaccgctggaagtac
	reverse:	ccgctatgaactgggtctc
α -feto- protein:	forward:	agaacctgtcacaagcttg
	reverse:	gacagcaagctgaggatgtc
ALK-4:	forward:	cacgtgtgagacagatggg
	reverse:	ggcgggttgtagatagacacg

ACVR-2:	forward:	gggagctgctgcaaagtg
	reverse:	ccacatcaacactggtgcc
ACVR-2B:	forward:	caccatcgagctcgtgaag
	reverse:	gagcccttgcatggaagg
hTERT	forward:	cagctcccatttcacagca
	reverse:	cgacatccctgcgttcttg